

## Goat Anti-Human Hemoglobin PAb, HRP-Conjugation

**Cat. No.** CPBTT-30937GH    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

**Species** Human

**Source** Goat

**Product Overview** Goat polyclonal to human hemoglobin (HRP).

#### Antigen Description

The human alpha globin gene cluster located on chromosome 16 spans about 30 kb and includes seven loci: 5'- zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 - alpha-1 - theta - 3'. The alpha-2 (HBA2) and alpha-1 (HBA1) coding sequences are identical. These genes differ slightly over the 5' untranslated regions and the introns, but they differ significantly over the 3' untranslated regions. Two alpha chains plus two beta chains constitute HbA, which in normal adult life comprises about 97% of the total hemoglobin; alpha chains combine with delta chains to constitute HbA-2, which with HbF (fetal hemoglobin) makes up the remaining 3% of adult hemoglobin. Alpha thalassemias result from deletions of each of the alpha genes as well as deletions of both HBA2 and HBA1; some nondeletion alpha thalassemias have also been reported.

#### Immunogen

Goats were immunized with purified human hemoglobin. After multiple immunizations in Freund's adjuvant the goats were bled and serum collected. The antibodies were isolated by immunoaffinity chromatography and conjugated with horseradish peroxidase

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Host animal</b>    | Goat                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Conjugation</b>    | HRP                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Target</b>         | Hemoglobin                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>           | Liquid                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage Buffer</b> | 50 mM HEPES, 0.1 M Sodium Chloride with 0.2% BSA, 0.01% Thimerosal                                                                                                                                                                                                                                                                                                                                                 |
| <b>Concentration</b>  | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>        | Keep as concentrated solution, aliquot and store at 4°C.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Note</b>           | For Research and Manufacturing Only; Not for Use in Diagnostic Applications. The affinity purified antibody forms a single line of precipitation with human adult hemoglobin A1, A2, F and S by immunoelectrophoresis. There is no reaction with human serum proteins. Suggested starting dilutions are 1:10,0001:50,000 but optimal working dilutions should be determined for your particular assay conditions." |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HBA1 hemoglobin, alpha 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b> | HBA1                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>        | HBA1; hemoglobin, alpha 1; HBH; CD31; hemoglobin subunit alpha; alpha-globin; alpha-1 globin; alpha-1-globin; alpha one globin; hemoglobin alpha chain; hemoglobin alpha-1 chain; hemoglobin alpha 1 globin chain; MGC126895; MGC126897; Hemoglobin alpha 2; 142200; 3047; 3043; Hemoglobin; 3039; HSGGL1; HBB; HBG1; HBGR; CD113t-C; 141800; CD113tC; P68871; 141900; Q3MIF5; HBGA; PRO2979; |

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|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P69891; CD113t C    |                                                                                                                                                                                          |
| Gene ID             | 3039                                                                                                                                                                                     |
| mRNA Refseq         | NM_000558                                                                                                                                                                                |
| Protein Refseq      | NP_000549                                                                                                                                                                                |
| MIM                 | 141800                                                                                                                                                                                   |
| UniProt ID          | P69905                                                                                                                                                                                   |
| Chromosome Location | 16p13.3                                                                                                                                                                                  |
| Pathway             | African trypanosomiasis; Malaria; Metabolism; O <sub>2</sub> /CO <sub>2</sub> exchange in erythrocytes; Selenium Pathway; Uptake of Carbon Dioxide and Release of Oxygen by Erythrocytes |

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